App No.: Not Yet Assigned Do Inventor: Dawn Windsor-Hines et al. Title: INDUCING TOLERANCE IN PRIMATES

Docket No.: TLN-022

TRX1 Light Chain FIGURE 1A

TTG L	CAG	ACA T	GGA G	TCT S	AGT	GCC A	
S	CAA	999	GGT G	300 A	GAG 1	Y Y	
BAT O	TAT (Y	S	TTC (CAG (STC 7	
CTG CTA TGG GTG CTG CTC TCG GTT CCA GGC TCC ACT GGT GAC ATT GTG ATG ACC CAA TCT CCA GAT TCT L L W V L L L W V P G S T G D I V M T Q S P D S L L L W V P G S C T G D I V M T Q S P D S C T C CAA GAT TCT CCA GAT TC	TGG	999		GAT GAG CAG TTG AAA TCT GGA ACT D E Q L K S G T	ည်င	AAG GAC AGC ACC TAC AGC AGC ACC CTG ACG CTG AGC AAA GCA GAC TAC GAG AAA CAC AAA GTC TAC K D S T Y S L S S T L T L S K A D Y E K H K V Y	
rcr s FR1-	AAC N	AGT	CCG ACG P T	S	AAC	CAC	
₹ α	ATG M	GGC G FR3-		AAA K	GGT	A A A	
Acc	GGT GAT AGT TAT ATG G D S Y M	TTT AGT F S	GAC	TTG	TAT CCC AGA GAC AAA GTA CAG TGG AAG GTG GAT AAC GCC CTC CAA TCG GGT AAC Y P R E A K V Q W K V D N A L Q S G N	GAG	
ATG	AGT	TTT F	CTT CAG	CAG	S O	TAC	
GTG V	GAT	AGG R	AGT CTT S L	GAG	CHC	GAC	
ATT	GGT G	GTT GCA TCC AAT CTA GAG TCT GGG GTC CCA GAC AGG V A S N L E S G V P D R	AGT	GAT	ggc B	gC ₽	TAG *
GAC	GAT D	CC P	8 o	rcr s	AAC	A A	TGT
GGT G	GAT TAT D Y	GTC	CAG	ATC TTC CCG CCA I F P P	GAT	AGC	GGC CTG AGC TCG CCC GTC ACA AAG AGC TTC AAC AGG GGA GAG TGT G L S S P V T K S F N R G E C
ACT H	STT GAT TAT V D Y	විසි	TGT C	CCG (P	GTG V	CTG	GGA G
77C 8	GTT	rcr s	TAC	TIC	AAG	ACG	AGG R
ပ္ပဋ္ဌ	AGT (GAG	TAT	ATC	TG ≅	CT Tr	AAC
ည် မ	A O	AAT CTA N L CDR2	GTC	TTC	CAG	ACC	TTC F
GTT	AGC	TCC AAT S N	GTT GCA GTC V A V	GIG GCT GCA CCA TCT GTC TTC V A A P S V F	GTA V	AGC	AGC
TGG	GCC	TCC A S	GTT V	TCT	AAA M	AGC	AAG
ភូមិ	AAG K	GCA	CTG CAG GCG GAG GAT	S a	GCC	CTC	ACA T
CTG	7gc ° · · ·	GTT V	GAG E	GCA A	GAG	AGC	GTC
CTG	AAC	CTC ATC TAT L I Y	GCG A	GCT A	AGA R	TAC	CCC
TGG GTG W V Leader	ATC	ATC	CAG	GTG) 1 1	ACC	TCG
TGG Le	ACC		CTG	AAA CGA ACT K R T	TAT	AGC	AGC
CT 1	AGG GCC R A	AAA CTC K L	AGT TCT S S	CGA	AAC TTC 1	GAC	CTG
			AGT S		AAC		
ATC	CTA GGT GAG L G E	CCA CCC P P	ATC	ATC	AAT	AGC	CAG
A L	GGT	CCA	ACC 1	GAA	CTG	GAC	CAT
GAC	Ç.	CA CA	5	GTG V -FR4-	CTG	CAG	ACC H
ACA T	rcr (GGA G	ACC T	AAG K	o Tigo	GAG	GTC V
ATG GAG ACA GAC ACA ATC M E T D T I	GTG v	AAA CCA GGA CAG CCA CCC K P G Q P P	GAC TTC ACC CTC ACC ATC D F T L T I	GGT ACC AAG GTG GAA ATC G T K V E I	GTT GTG TGC CTG CTG AAT V V C L L N	GTC ACA GAG CAG GAC AGC V T E Q D S	TGC GAA GTC ACC CAT CAG
ATG M	GCT	AAA × :	GAC .	GGT	GTT V	GTC V	TGC C

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Title: INDUCING TOLERANCE IN PRIMATES

FIGURE 1B TRX1 Light Chain Nucleic Acid Sequence

TGTGATGACCCAATCTCCAGATTCTTTGGCTGTGTCTCTAGGTGAGAGGGCCACCATCAACTGCAAG GCCAGCCAAAGTGTTGATTATGATGGTGATAGTTATGAACTGGTATCAACAGAAACCAGGACAG
 AACGCCCTCCAATCGGGTAACTCCCAGGAGTGTCACAGAGCAGGACAGGACAGGACAGCACTA
 GCCTCTGTTGTGTGCCTGCTGAATAACTTCTATCCCAGAGGGCCAAAGTACAGTGGAAGGTGGAT ATTACTGTCAGCAAAGTCTTCAGGACCCTCCGACGTTCGGTGGAGGTACCAAGGTGGAAATCAAA CGAACTGTGGCTGCACCATCTGTCTTCATCTTCCCGCCATCTGATGAGCAGTTGAAATCTGGAACT CAGCCTCAGCACACCCTGACGCTGAGCAAAGCAGACTACGAGAAACACACAAAGTCTACGCCTGCG ATGGAGACAGACACAATCCTGCTATGGGTGCTGCTGCTCTGGGTTCCAGGCTCCACTGGTGACAT CCACCCAAACTCCTCATCTATGTTGCATCCAATCTAGAGTCTGGGGTCCCAGACAGGTTTAGTGG CAGTGGGTCTGGGACAGACTTCACCCTCACCATCAGTTCTCTGCAGGCGGAGGATGTTGCAGTCT AAGTCACCCATCAGGGCCTGAGCTCGCCCGTCACAAAGAGCTTCAACAGGGGAGAGTGTTAG

Ilnventor: Dawn Windsor-Hines et al.

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TRX1 Light Chain Amino Acid Sequence with CDRs Highlighted FIGURE 1C

With leader sequence:

QPPKLLIY**VASNLES**GVPDRFSGSGSGTDFTLTISSLQAEDVAVYYC**QQSLQDPPT**FGGGTKVEIKR TVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKDSTYSL METDTILLWVLLLWVPGSTGDIVMTQSPDSLAVSLGERATINC**KASQSVDYDGDSYM**WYQQKPG SSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC

Without leader sequence:

FSGSGSGTDFTLTISSLQAEDVAVYYC**QQSLQDPPT**FGGGTKVEIKRTVAAPSVFIFPPSDEQLKSGT ASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEV DIVMTQSPDSLAVSLGERATINC**KASQSVDYDGDSYMN**WYQQKPGQPPKLLIY**VASNLES**GVPDR THOGLSSPVTKSFNRGEC

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FIGURE 1D TRX1 Heavy Chain

r K	o g	Ďι	TTT	ACC T	၁၅၅	T T	CCG	3TC	K K
GTG V	TCA GTG AAG GTG TCT GGA TAC ACA TTC ACT GCC TAT GTT ATA AGC TGG GTG AGG CAG GCA CCT GGA CAG S V K V S C K A S G Y T F T A Y V I S W V R Q A P G Q	GGA GAG ATT TAT CCT GGA AGC GGT AGT TAT TAT AAT GAG AAG TTC AAG GGC AGG GTC ACA ATG ACT AGA GAC ACA G E I Y P G S G S Y Y N E K F K G R V T M T R D T C C C C C C C C C C C C C C C C C C C	. gg ~	GTT TAC TGG GGC CAA GGG ACA CTA GTC TCC TCA GCC TAC GGC CCA TCG GTC TTC CCC CTG GCA CCC TCC TAC AAG AGC ACC V Y W G Q G T L V T V S S A S T K G P S V P P L A P S S K S T	AGC (CAG ACC	CCA	CTC GCG GGG GCA CCG TCC TTC CTC CCA AAA CCC AAG GAC ACC CTC ATG ATC TCC CGG ACC CCT GAG GTC	GAC GTG AGC CAC GAA GAC CCT GAG GTC AAG TTC AAC TGG TAC GTG GAC GGC GTG GAG GTG CAT AAT GCC AAG ACA AAG D V S H E D P E V K F N W Y V D G V E V H N A K T K
GAA	CCT	AGA R	AGT S R3	AAG K	ACC	ACC T	ညီပ	CCT	AAG K
GCT A	A A	AÇI H	ပ္ပို့ မြ	ည်င	org L	ပ္ပမ္	P. P.	FC T	30C /
ggA G	CAG	ATG	SAC O	. 201 S) P &	rrg (CAC I	7 990 200 ×	Z Z Z
S	AGG	A P	999) P	ဥ္ဌင္ဌ	AGC .	ACT.	TCC S	CAT
CAG	GTG V	GTC	S	A GCA	TCA S	AGC S	¥. ¥.	ATC A	DIG >
STG >	TGG ×	AGG R	AGA .	CTG	PAC N	ည်င	3AC D	ATG M	BAG (
CTG	AGC	ည်း ၁၉၈	, g 4	CCC	TGG. ™	ည္ထ	TGT O	CTC	3TG (
o Gag	ATA	AAG TTC AAG GGC	TGT C	TTC F stan	3 S	GTG	rcr	ACC T	ာ ၁၁၅၅
GTT	GTT	TTC TF	TAC	GTC V Con	GTG >	ACC	* AA	GAC	GAC O
o CAG	TAT	AAG K	TAT Y	TCG S	ACG	GTG V	200	AAG K	GTG V
TCC S	GCC A	GAG	GTC V	Q a.	GTG v	GTG V	GAG E	ည်ရှ	TAC
CAG O	ACT	AAT GAG	GCG A	၁၅၅	D P	AGC	GTT	AAA K	TGG W
GTC	TTC	TAT	ACT	AAG K	GAA	AGC 8	AAA	g a	AAC
GGT	ACA 1	TAT	GAC	ACC	ည္သ	SF J	AAG ,	ပ္ပ	D. F.
CGA R	TAC	ST AGT	GAG	TCC	TTC	TCC	GAC	TTC	AAG
ACT T	GGA	AGT	TAC ATG GAA CTC AGC CTG AGG TCT GAG GAC ACT GCG GTC TAT TAC TGT GCA AGA TCC GGG GAC GGC AGT Y M E L S S L R S E D T A V Y Y C A R S G D G S CDR3	9 d	CTG GGC TGC CTG GTC AAG GAC TAC TTC CCC GAA CCG GTG ACG GTG TCG TGG AAC TCA GGC GCC CTG ACC AGC	GCT GTC CTA CAG TCC TCA TCC CTC AGC AGC GTG GTG ACC GTG CCC TCC AGC AGC TTG GGC ACC	AAT CAC AAG CCC AGC AAG AAG GTG GAC AAG AAA GTT GAG CCC AAA TCT TGT GAC AAA ACT CAC ACA TGC CCA N H K P S N T K V D K K V E P K S C D K T H T C P	CTC	GTC
gg G	TCT S	GGT	AGG R	TCA s	GAC	5 J	AAG K	TIC	GAG
TCA S	GCT ₽	AGC	CTG	TCC S	AAG K	gg o	ACC	GTC	CCT
CTG	AAG K	GGA	AGC S R3	GTC	GTC V	TCA 8	AAC	TCA	GAC
ATC	TGT C	CCT	AGC S	ACA	CTG	77.C	AGC	000 P	GAA
OH L	TCC S	TAT	CTC	GTC V	ညီ ပ	9g 0	occ c	ర్ట్ ∢	C H
CTC J	GTG	ATT	GAA E	CTA L	ე ც	CTA	AAG K	999	AGC
TTT F	AAG	GAG	ATG	ACA T	CTG	GTC	CAC	900 A	GTG v
ATC	GTG	664 6	TAC	999 9	20 GCC	GCT	AAT	5 J	GAC
TGG ≅	TCA s	ATG	GTC V	80	900 4	ව්ව	GTG	GAA	GTG V
ATC	GCT A	TGG W	ACA T	ည္သမ္မ	ACA T	TTC	AAC	ភ្ជ	GTG V
TGG ₩	999	GAG TGG ATG	AGC S	TGG W	GGC ACA GCG	ACC	TGC O	දු අ	GTG V
GAA E	Ç a	CTT	TCC ACC AGC ACA GTC TO	TAC Y	ენე ი	GTG CAC ACC TTC CCG V H T F P	TAC ATC TGC AAC GTG	TGC CCA GCA CCT GAA C P A P E	ACA TGC GTG GTG GTG
ATG M	AAG K		TCC S	GTT V	TCT	GTG V	TAC Y	ည်ပ	S F

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<u> </u> ဒီငိင	DD of	AGC S	AAG K	900 4 :	
AAG K	E J	GAG	GAC	TCT s	
TAC	ACC T	TGG 38	GTG ^	CTG 1	
GAG .	TAC	GAG	ACC	TCC	
TGG CTG AAT GGC AAG W L N G K	GTG ^	GTG >	TAC AGC AAG CTC ACC Y S K L T	CTC	
ပ္ပိ	CAG CAG	GCC A	AAG K	AGC	
AAT N	Ŋ.	ATC	AGC	AAG	
CTG	E A	GAC	TAC	CAG	
TGG W	g a	AGC	5.1	ACG T	
GAC) ပို့	ပ္ပ	TTC	TAC	
GTC CTG CAC CAG GAC V L H Q D	CAG CCC	AAA GGC TTC TAT CCC AGC GAC ATC GCC GTG K G F Y P S D I A V	S F F	CAC AAC CAC TAC ACG CAG AAG AGC CTC H N H Y T Q K S L	
CAC H	999	TTC	TCC S	AAC	
CTG L	¥¥	ပ္တ ဗ	GAC GGC	CAC	
GTC	GCC A	AAA K	GAC	CIG	
GTC AGC GTC CTC ACC	AAA ACC ATC TCC AAA GCG AAA GGG K T I S K A K G	TGC CTG GTC	CCC GTG CTG GAC TCC	GAG GCT E A	
CTC	TCC s	CTG	GAC	GAG	
GTC	ATC I	ည္ရပ	CTG	GTG ATG CAT V M H	
AGC	ACC T	CTG ACC 1	GTG >	ATG	
GTC	₹×	CTG	ည္မ	GTG	
GTG V	ATC GAG I	CAG GTC AGC (Q V S	CCT	TCA TGC TCC S C S	
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ACG T	ეე ∀	A A C	AAG K	TTC	
AGC ACG TAC CGT GTG S T Y R V	Ö d	AAG AAC O	TAC AAG ACC ACG CCT Y K T T P	GTC	
AAC N	ភ្ជា	ACC	AAC AAC 1	AAC	
TAC	GCC A	CTG	AAC N	ອອອ	
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GAG E	AAC N	GAT	occ P	CAG	
GAG	TCC s	000 %	CAG	TGG W	TGA *
S & .	AAG GTC TCC AAC AAA K V S N K	CCA TCC CGG GAT GAG P S R D E	AAT GGG CAG CCG GAG N G Q P E	AGC AGG TGG CAG CAG S R W Q Q	GGT AAA TGA G K *
D G	AAG K	CCA P	AAT	AGC	GGT

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Title: INDUCING TOLERANCE IN PRIMATES

TRX1 Heavy Chain Nucleic Acid Sequence FIGURE 1E

ATGGAATGGATCTGGATCTTTCTCCTCATCCTGTCAGGAACTCGAGGTGTCCAGTCCCAGGTTCAGCTGGTGCA TGCAACGTGAATCACAAGCCCAGCAACACCCAAGGTGGACAAGAAAGTTGAGCCCAAATCTTGTGACAAAACTCA CACATGCCCACCGTGCCCAGCACCTGAACTCGCGGGGGCACCGTCAGTCTTCCTCTTCCCCCCCAAAACCCAAG TACATGGAACTCAGCAGCCTGAGGTCTGAGGACACTGCGGTCTATTACTGTGCAAGATCCGGGGGACGGCAGTC GTCCTCAGGACTCTACTCCCTCAGCAGCGTGGTGACCGTGCCCTCCAGCAGCTTGGGCACCCAGACCTACATC GCCTATGTTATAAGCTGGGTGAGGCAGGCACCTGGACAGGGCCTTGAGTGGATGGGAGAGATTTATCCTGGAA GCGGTAGTAGTTATATAATGAGAAGTTCAAGGGCAGGGTCACAATGACTAGAGACACACATCCACCAGCACAGTC AACAGCACGTACCGTGTGGTCAGCGTCCTCACCGTCCTGCACCAGGACTGGCTGAATGGCAAGGAGTACAAGT GCAGCAGGGGAACGTCTTCTCATGCTCCGTGATGCATGAGGCTCTGCACAACCACTACACGCAGAAGAGGCCTC CGAACCGGTGACGGTGTCGTGGAACTCAGGCGCCCTGACCAGCGGCGTGCACACCTTCCCGGCTGTCCTACA GGTTTGTTTACTGGGGCCAAGGGACACTAGTCACAGTCTCCTCAGCCTCCACCAAGGGCCCATCGGTCTTCCC CCTGGCACCCTCCTCCAAGAGCACCTCTGGGGGCACAGGGGCCCTGGGCTGCTGGTCAAGGACTACTTCCC GACACCCTCATGATCTCCCGGACCCCTGAGGTCACATGCGTGGTGGTGGACGTGAGGCCACGAAGACCCTGAG | CAAAGGCTTCTATCCCAGCGACATCGCCGTGGAGTGGGAGAGCAATGGGCAGCCGGAGAACAACTACAAGA GCAAGGTCTCCAACAAGGCCTCCCAGCCCCCATCGAGAAAACCATCTCCAAAGGCCAAAGGGCAGCCCGAG GTCTGGAGCTGAAGTGAAGAAGCCTGGGGCTTCAGTGAAGGTGTCCTGTAAGGCTTCTGGATACACATTCACT TCCCTGTCTCCGGGTAAATGA

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App No.: Not Yet Assigned

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Inventor: Dawn Windsor-Hines et al.

Title: INDUCING TOLERANCE IN PRIMATES

TRX1 Heavy Chain Amino Acid Sequence with CDRs Highlighted FIGURE 1F

With leader sequence:

LPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGS LYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELAGAPSVFLFPPKPKDTLMIS RTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKA TLVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSG MEWIWIFLLILSGTRGVQSQVQLVQSGAEVKKPGASVKVSCKASGYTFT**AYVIS**WVRQAPGQGLEW MGEIYPGSGSSYYNEKFKGRVTMTRDTSTSTVYMELSSLRSEDTAVYYCARSGDGSRFVYWGQG FFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

Without leader sequence:

DGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPS RDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVM KPSNTKVDKKVEPKSCDKTHTCPPCPAPELAGAPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYV PSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNH KGRVTMTRDTSTSTVYMELSSLRSEDTAVYYCARSGDGSRFVYWGQGTLVTVSSASTKGPSVFPLA QVQLVQSGAEVKKPGASVKVSCKASGYTFT**AYVIS**WVRQAPGQGLEWMG**EIYPGSGSSYYNEKF** HEALHNHYTQKSLSLSPGK

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TRX1 Light FIGURE 2A

TTG	CAG	ACA T	GGA G	TCT S	AGT	gcc A	
ည်း	CAA	999		500 ₹		Y C	
D	Y Y	ប្រទ	7C G	Į.	860	V V	
5	. ¥	. 56. 1 G	00 F v	GA 7	ည်င	4 ×	
rcr c s -FR1	A A A	SSST	₹ 80 a	S L	AAC I	CAC A	
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υ ₁ Ε	Y Y	GT G	AC C	TG A	rcg g	GAG A	
M M	GT T S	TT A F	AG G O DR3-	CAG T	CAA	AC G	
A N	GAT A	R R	CTT CAG	AG C	CTC	AC T	
D I	GT G	AC A	GT C	AT G	0 000 P	5 4	* AG
A CA	AT G	5 4	4 o	rcr g	AAC G	A * .	E TO
6 v	АТ G Y 11	V V	9 AG	CA T P ant-	GAT A	, GC A	AG T
CTG CTA TGG GTG CTG CTG GTT CCA GGC TCC ACT GGT GAC ATT GTG ATG ACC CAA TCT CCA GAT TCT L L W V L L L W V P G S T G D I V M T Q S P D S	AGG GCC ACC ATC AAC TGC AAG GCC AGC CAA AGT GTT GAT TAT GAT GGT GAT AGT TAT ATG AAC TGG TAT CAA R A T I N C K A S Q S V D Y D G D S Y M N W Y Q	AAA CTC CTC ATC TAT GTT GCA TCC AAT CTA GAG TCT GGG GTC CCA GAC AGG TTT AGT GGC AGT GGG TCT GGG K L L I Y V A S N L E S G V P D R F S G S G S G S G S G S G S G S G S G S	CTG CAG GCG GAG GAT GCA GTC TAT TAC TGT CAG CAA AGT CTT CAG GAC CCT CCG ACG TTC GGT L Q A B B T F G L Q A B P T F G L Q A C CT CCG ACG TTC GGT L Q A B A C Y Y C Q Q S L Q D P P T F G L Q A C C C C C C C C C C C C C C C C C C	AAA CGA ACT GTG GCT GCA TCT GTC TTC CCG CCA TCT GAT GAG CAG TTG AAA TCT GGA ACT GCC K R T V A A L S V F I F P P S D E Q L K S G T A	AAC TTC TAT CCC AGA GAG GCC AAA GTA CAG TGG AAG GTG GAT AAC GCC CTC CAA TCG GGT AAC TCC CAG GAG N F Y P R E A K V Q W K V D N A L Q S G N S Q E	AAG GAC AGC ACC TAC AGC AGC ACC CTG ACG CTG AGC AAA GCA GAC TAC GAG AAA CAC AAA GTC TAC K D S T Y S L S S T L T L S K A D Y E K H K V Y	GGC CTG AGC TCC ACA AAG AGC TTC AAC AGG GGA GAG TGT TAG G L S S P V T K S F N R G E C *
ည်း	V V	17. S .	Y Y	7. T. O	AAG O	50 5	99 %
ပ္မွ	S	E E	Y Y	ATC 1	TGG A	1, 1,	N N
55 4	¥ 0	CTA C	7 A	FF F	CAG 1	J.	TC 7
LIE .	3 8	N CDR2	0 4 8 4	V V	GTA (AGC P	AGC 1 S
98	200 A	S N	V V	S	AAA X	S S	A Se
E a	K K	C P G	SAT O	T. T.	30C 4	TC ,	CA 7
ği i	ιςς γ (20)	GTT (BE E	9.0 A	3AG O	3 8 8	STC A
i i	N	rat o	93G €	A A	R R	rAC 7	200 4
GTG (ATC /	ATC :	O PG	STG (200 / P	D F) ၁၅၅ ၁
TGG GTG W V Leader	#CC 7	CITC 1	DIG.	P F	TAT (8 S	န်င်င္ 3 န
ATJ.	3CC /	OTC (S S	CGA 7	rrc :	3AC /	CTG /
013	AGG (* X	AGT TCT S S	AAA	AAC .	K K	ပ္တစ္
ATC (ATC I		8 S	SAG O
Q H	GGT	CCA CCC P P	ACC .	GAA	org ,	BAC D	CAT (
Day -	CTA (CAG	CIC	GTG (V V FR4-	CTG (CAG (T T
E L	JCT s	GGA	ACC	AAG (K	ngc (GAG (STC ;
ATG GAG ACA GAC ACA ATC M E T D T I	GCT GTG TCT CTA GGT GAG A V S L G E	AAA CCA GGA CAG CCA CCC K P G Q P P	BAC TTC ACC CTC ACC ATC	G T K V E I	STT GTG TGC CTG CANT V V C L L N	STC ACA GAG CAG GAC AGC V T E Q D S	rgc gaa gtc acc cat cag c E V T H Q
ATG M	3CT A	¥ ×	3AC D	GGT	STT. V	STC	ည္ည

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TRX1 Light Chain Nucleic Acid Sequence

FIGURE

GGTGAGAGGGCCACCATCAACTGCAAGGCCAGCCAAAGTGTTGATTATGATG GGCAGTGGGTCTGGGACAGACTTCACCCTCACCATCAGTTCTCTGCAGGCGG CGGTGGAGGTACCAAGGTGGAAATCAAACGAACTGTGGCTGCACTATCTGTC GTGCCTGCTGAATAACTTCTATCCCAGAGAGGCCAAAGTACAGTGGAAGGTG GACTACGAGAAACACAAAGTCTACGCCTGCGAAGTCACCCATCAGGGCCTGA CCACTGGTGACATTGTGATGACCCAATCTCCAGATTCTTTGGCTGTGTCTCTA ATGGAGACAGACACAATCCTGCTATGGGTGCTGCTGCTCTGGGTTCCAGGC GATAACGCCCTCCAATCGGGTAACTCCCAGGAGAGTGTCACAGAGCAGGAC AGCAAGGACAGCACCTACAGCCTCAGCAGCACCCTGACGCTGAGCAAAGCA TTCATCTTCCCGCCATCTGATGAGCAGTTGAAATCTGGAACTGCCTCTGTTG⁻ GTGATAGTTATATGAACTGGTATCAACAGAAACCAGGACAGCCACCCAAACT AGGATGTTGCAGTCTATTACTGTCAGCAAAGTCTTCAGGACCCTCCGACGTT CCTCATCTATGTTGCATCCAATCTAGAGTCTGGGGTCCCAGACAGGTTTAG1 SCTCGCCCGTCACAAGAGCTTCAACAGGGGAGAGTGTTAG

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TRX1 Light Chain Amino Acid Sequence with CDRs Highlighted

FIGURE 2C

With leader sequence:

LLIYVASNLESGVPDRFSGSGSGTDFTLTISSLQAEDVAVYYCQQSLQDPPTFGGGTKVEIKRTVAALSVFIF PPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKH METDTILL WVLLL WVPGSTGDIVMTQSPDSLAVSLGERATINCKASQSVDYDGDSYMNWYQQKPGQPPK KVYACEVTHQGLSSPVTKSFNRGEC

Without leader sequence:

FYPREAKVQWKVDNALQSGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSF SGTDFTLTISSLQAEDVAVYYCQQSLQDPPTFGGGTKVEIKRTVAALSVFIFPPSDEQLKSGTASVVCLLNN DIVMTOSPDSLAVSLGERATINCKASQSVDYDGDSYMNWYQQKPGQPPKLLIYVASNLESGVPDRFSGSG NRGEC

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FIGURE 2D

1-

TRX1 Heavy Chain (aglycosyl)

		•							
AAG K	CAG :	ACA T	TTT F	ACC T	၁၁	ACC T	විටු ය	GTC V	AAG K
GTG	455 p	GAC	CGG	AGC S	AGC S	CAG	۲ کی م	3AG E	P P
GAA	CCT	AGA R	AGT S R3	AAG K	ACC	ACC	ည္သင္မ		A'A'G
GCT	A GCA	ACT T	GGC AGT G S CDR3-	3 8	CTG	ည်ဗ	ACA F	ACC T	23C A
gg.	CAG Q	ATG M	GAC D	ည်င	30C	TTG	CAC	990 er	AAT N
S	AGG	ACA T	999	ည္မ	ည်မ	AGC	ACT	JCC 8	CAT
Seg of	GTG AGG	GTC	S	GCA A	rCA s	AGC	A ×	ATC	GTG V
GTG V	TGG W	AGG R	AGA R	CTG	AAC	S	GAC	ATG M	GAG
CTG 1	ATA AGC TGG	ည္သ ဗ	A GCA	CCC P P P CCC	TGG ×	رزر له	ngr c	CHO	GTG V
CAG O	ATA I	AAG K	TGT C	TTC F Stan	TCG S	GTG V	S	ACC	၁၁၅
GTT V	C ACT GCC TAT GTT T A Y V	TTC	TAC	GTC TTC CCC V F P	GTG V	ACC T	A A A	GAC	GAC
CAG	TAT Y	AAG K	TAT	TCG S	ACG	GTG V	ည္သ	AAG K	GTG V
TCC S	GCC TAT GTT A Y V	GAG	GTC V	CC P	GTG V	GTG V	GAG	CCC	TAC
CAG	ACT T	AAT N	GCG A	ည္သမ္မ	9 6	AGC S	GIT	AAA K	TGG W
GTC V	TTC	TAT	ACT	AAG K	GAA	AGC	AAA K	CCA	AAC
GGT	ACA	TAT TAT Y Y	GAC	ACC	200	CHC	AAG K) (CCC	TTC
CGA	TAC	T AGT S -CDR2-	GAG	TCC 8	TTC	TCC S	GAC	TTC	AAG K
ACT T	GGA G	AGT S	TCT	200 ₹	TAC	TAC	GTG V	CTC	GTC
g G	TCT s	GGT	AGG R	TCA s .	GAC	CTC	AAG K	TTC	GAG
TCA s	GCT A	AGC	CTG	ည္မွ	AAG K	GGA	ACC	GTC V	CCT P
CTG	AAG K	GGA	GC AGC S S	GTC V	GTC V	TCA s	AAC	TCA s	GAC
ATC	TGT C	CCT	AGC S	₽ P	CTG	ည်င	AGC S	ည် ရ	GAA
CTC	G TCC TGT A	TAT	CHO	GTC V	TGC C	CAG	CC P	ggA G	CAC
CTC	GTG V	ATT	GAA	CA CTA T L	ည္သမွ	Q.	AAG K	999	AGC S
TTT F	AAG K	GAG	ATG M	ACA 1	CTG	GTC >	CAC H	CTG	GTG v
ATC	GTG V	GGA G	TAC	999	9 8 8	GCT A	AAT	ភូមិ	GAC
TGG w	S TC	ATG M	GTC	₹ 0	900 P	900 4	GTG	GAA E	GTG
ATC	GCT A	TGG ¥	ACA T	ပ္တိဗ	ACA T	TTC	AAC	Ç a	GTG V
TGG W	999	GAG	AGC	ენ 3 . ენ 3 .	ည္တ	ACC 1	7gC C	80 €	GTG V
ATG GAA TGG ATC TGT CTC CTC ATC CTG TCA GGA ACT CGA GGT GTC CAG GTT CAG CTG GTG CAG TCT GGA GCT GAA GTG AAG M E W I W I F L L I L S G T R G V Q S Q V Q L V Q S G A E V K	ANG CCT GGG GCT TCA GTG TCC TGT ANG GCT TCT GGA TAC ACT TCC TAT GTT ATA AGC TGG GTG AGG CAG GCA CGT GGA CAG K P G A S V K V S C K A S G Y T F T A Y V I S W V R Q A P G Q CONTROL CO	GGC CTT GAG TGG GGA GAG ATT TAT CCT GGA AGC GGT AGT TAT TAT AAT GAG AAG TTC AAG GGC AGG GTC ACA ATG ACT AGA GAC ACA G L E W M G E I Y P G S G S S Y Y N E K F K G R V T M T R D T CDR2	TCC ACC AGC ACA GTC TAC ATG GAA CTC AGC AGC CTG GAG GAC ACT GCG GTC TAT TAC TGT GCA AGA TCC GGG GAC GGC AGT CGG TTT S T S T V Y M E L S S L R S E D T A V Y Y C A R S G D G S R F 	GIT TAC TGG GGC CAA GGG ACA CTA GTC ACA TCC TCC ACC AAG GGC CCA TCG GTC TTC CCC CTG GCA CCC TCC TCC TAG AGC ACC V Y W G Q G T L V T V S S A S T K G P S V F P L A P S S K S T Constant	TCT GGG GGC ACA GCG GCC CTG GGC TAG GAC TAC TTC CCC GAA CCG GTG ACG GTG TGG AAC TCA GGC GCC CTG ACC AGC GGC S G G T A A L G C L V K D Y F P E P V T V S W N S G A L T S G	GTG CAC ACC TTC CCG GCT GTC CTA CAG TCC TCC TCC AGC AGC GTG GTG ACC GTG CCC TCC AGC AGC TTG GGC ACC CAG ACC V H T F P A V L Q S S G L Y S L S V V T V P S S S L G T Q T	TAC ATC TGC AAC GTG AAT CAC AAG CCC AGG AAC ACC AAG GAG AAA GTT GAG CCC AAA TCT TGT GAC AAA ACT CAC ACA TGC CCA CCG Y I C N V N H K P S N T K V D K K V E P K S C D K T H T C P P	TGC CCA GCA CCT GAA CTC CTG GGG GGA CCG TCA GTC TTC CTC CCA AAA CCC AAG GAC ACC CTC ATG ATC TCC CGG ACC CCT GAG GTC C P A P E L L G G P S V F L F P P K P K D T L M I S R T P E V	ACA TGC GTG GTG GAC GTG AGC CAC GAA GAC CCT GAG GTC AAG TTC AAC TGG TAC GTG GAC GGC GTG GAG GTG CAT AAT GCC AAG ACA AAG T C v v v d v s h e d p e v k f n w y v d g v e v h n a k t k
ATG M	AAG	ည္သ	TCC	GTT	TCT	STG V	TAC Y	1GC C	ACA H

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TGC C	CCC	AGC S	AAG K	000 d	
	TIG (GAC /	rcı s	
rAC /	ACC CTG T L	gg ×	GTG (CTG TCT	
SAG T	TAC /	E E	1 1	70C (s	
K K	GTG 1	N V	J. J.	T T	
CAG GAC TGG CTG AAT GGC AAG GAG TAC AAG Q D W L N G K E Y K	CAG	TAT CCC AGC GAC ATC GCC GTG GAG TGG GAG Y P S D I A V E W E	AAG CTC ACC (K L T	TAC ACG CAG AAG AGC CTC Y T Q K S L	•
N	g a	MTC (S S	A A A	
Tig 7	CAG CCC CGA GAA CCA Q P R E P	D D	CTC TAC AGC /	o Age	
99 x	e de la companya de l	သည်။ S	71C 1	D F	
D D	ပ္တို့ရ	200 #	TTC (AC 7	
S AG	9 de 0	Y Y	TTC 1 F	CAC 1	
AC O	0 99	7C 1		AC O	
11G O	AA G	G 1	G 1	AC A	
D D	CC A	AA G	AC G	CTG CAC AAC	
) H	A A	TC A	S 22	GCT O	
CTC ACC GTC CTG CAC	TCC AAA GCC AAA GGG S K A K G	CTG ACC AAG AAC CAG GTC AGC CTG ACC TGC CTG GTC AAA GGC TTC	GAC TCC GAC GGC TCC D S D G S	GAG G	
D A	11C 1	ວ ວິວຄ	TG G	AT G	
CGT GTG GTC AGC GTC R V V S V	ATC GAG AAA ACC ATC I E K T I	CC T	ACG CCT CCC GTG CTG T P P V L	ATG CAT	
TC A	4 ×	TG A	CC G	TG A	
V V	AG A	3 S	O LO	TCC GTG A	
GT G	IC G	TC A V	7 CG C	ဗ္ဗေ :	
AC C	CCC A	AG G	CC A	TCA T	
r cg	GCC C	AC C	AAG ACC	TTC T	
TAC GCC AGC ACG TAC Y A S T Y	S &SS	AG A	AC A	TC T V	
CC 4	CTC O	0 H	AAC AAC TAC P N N Y	GGG AAC GTC G N V	
AC G	900 C	TG A	AC A	86 P	
CAG T		P G	GAG AN	AG G	
20 G	7 P	AT G	CG G	20 0	
E G.	2C A	36 G.	AG C(TGA *
CCG CGG GAG GAG PREE	GTC TCC AAC AAA V S N K	TCC CGG GAT GAG	AAT GGG CAG CCG N G Q P	AGG TGG CAG CAG C	GGT AAA TGA G K *
ช "	AAG GT K V	CCA TC	80	AGC AG	3 -

Docket No.: TLN-022 Inventor: Dawn Windsor-Hines et al. Title: INDUCING TOLERANCE IN PRIMATES

2区 FIGURE

TRX1 aglycosyl mut Heavy Chain Nucleic Acid Sequence

GTGGATGGGAGAGTTTATCCTGGAAGCGGTAGTAGTTATTATAATGAGAAGTTCAAGGGCAGGG **ACAGTCCTCAGGACTCTACTCCCTCAGCAGCGTGGTGACCGTGCCCTCCAGCAGCTTGGGCACCC AGACCTACATCTGCAACGTGAATCACAAGCCCAGCAACACCCAAGGTGGACAAGAAGTTGAGCCC** AGTCTTCCTCTTCCCCCCAAAACCCAAGGACACCCTCATGATCTCCCGGACCCCTGAGGTCACATG CAAAGCCCTCCCAGCCCCCATCGAGAAAACCATCTCCAAAGCCAAAGGGCAGCCCCGAGAACCAC CGTGGTGGTGGACGTGAGCCCACGAAGACCCTGAGGTCAAGTTCAACTGGTACGTGGACGGCGTG GAGGTGCATAATGCCAAGACAAAGCCGCGGGAGGAGCAGTACGCCAGCACGTACCGTGTGGTCA AAATCTTGTGACAAAACTCACACATGCCCACCGTGCCCAGCACCTGAACTCCTGGGGGGACCGTC TCACAATGACTAGAGACACATCCACCAGCACAGTCTACATGGAACTCAGCAGCCTGAGGTCTGAG GGACACTAGTCACAGTCTCCTCAGCCTCCACCAAGGGCCCATCGGTCTTCCCCCTGGCACCCTCC TCCAAGAGCACCTCTGGGGGCACAGCGGCCCTGGGCTGCCTGGTCAAGGACTACTTCCCCGAAC CGGTGACGGTGTCGTGGAACTCAGGCGCCCTGACCAGCGGCGTGCACACCTTCCCGGCTGTCCT GCTGGTGCAGTCTGGAGCTGAAGTGAAGAGCCTGGGGCTTCAGTGAAGGTGTCCTGTAAGGCT GCGTCCTCACCGTCCTGCACCAGGACTGGCTGAATGGCAAGGAGTACAAGTGCAAGGTCTCCAA **ATGGAATGGATCTTTCTCCTCATCCTGTCAGGAACTCGAGGTGTCCAGTCCCAGGTTCA** GACACTGCGGTCTATTACTGTGCAAGATCCGGGGACGGCAGTCGGTTTTGTTTACTGGGGCCAAG

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GGTCAAAGGCTTCTATCCCAGCGACATCGCCGTGGAGTGGGAGGAGCAATGGGCAGCCGGAGAAC CGTGGACAAGAGCAGGTGGCAGCAGGGGAACGTCTTCTCATGCTCCGTGATGCATGAGGCTCTG AACTACAAGACCACGCCTCCCGTGCTGGACTCCGACGGCTCCTTCTTCCTCTACAGCAAGCTCAC **AGGTGTACACCCTGCCCCATCCCGGGATGAGCTGACCAAGAACCAGGTCAGCCTGACCTGCCT** CACAACCACTACACGCAGAAGAGCCTCTCCCTGTCTCCGGGTAAATGA

Title: INDUCING TOLERANCE IN PRIMATES

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TRX1 Heavy Chain aglycosyl mut Amino Acid Sequence with CDRs Highlighted

FIGURE 2F

With leader sequence:

YNEKFKGRVTMTRDTSTSTVYMELSSLRSEDTAVYYCARSGDGSRFVYWGQGTLVTVSSASTKGPSVFPLAPSSKSTS GGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKK VEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPR EEQYASTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVK MEWIWIFLLILSGTRGVQSQVQLVQSGAEVKKPGASVKVSCKASGYTFT**AYVIS**WVRQAPGQGLEWMG**EIYPGSGSSY** GFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

Without leader sequence:

VSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPE LLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYASTYRVVSVLTVLHQ QVQLVQSGAEVKKPGASVKVSCKASGYTFT**AYVIS**WVRQAPGQGLEWMG**EIYPGSGSSYYNEKFKG**RVTMTRDTSTST VYMELSSLRSEDTAVYYCAR**SGDGSRFVY**WGQGTLVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVT DWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPEN NYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

App No.: Not Yet Assigned Do Inventor: Dawn Windsor-Hines et al.
Title: INDUCING TOLERANCE IN PRIMATES

Docket No.: TLN-022

FIGURE 3A TRX1 Light Chain

TTG	;	CAG O	ACA T	GGA G	TCT s	AGT S	GCC A	
		\$ 0	999		GCC A	GAG	TAC	
CCA GAT TCT P D S		TAT	S .	F.	ACT O	CAG	GTC	
P G		TGG X	999	ACG .	GGA 2	TCC (AAA (
TCT s	FR1	AAC 7	AGT (CCT CCG ACG TTC GGT P P T F G	rici s	AAC Z	CAC /	
≸ o	1	ATG M	GGC 7 G FR3-	55 4	AAA K	GGT 3	₹×:	
D T		Y	AGT (GAC (rrg ,	rcg (3AG	
ATG M		AGT TAT S Y	TTT	CAG O	CAG	A O	C TAC GAG A	
STG V		GAT	AGG '	CTT CAG GAC L Q D	GAG E	CTC	3AC '	
ATT (I		GGT	CCA GAC AGG P D R	AGT S	TCT GAT GAG CAG TTG S D E Q L	AAC GCC N A	AAA GCA GAC K A D	TAG *
GAC	:	GAT	E P	CAA AGT	S	PAC	¥ ×	C
ggı	^	Y Y R1	GGG GTC 0	CAG	CCG CCA TCT P P S -Constant	GAT	AGC .	GAG
ACT		GAT TAT D Y	999	1. C .	CCG P Cons	GTG	CTG AGC	გ ი ;
CTA TGG GTG CTG CTC TGG GTT CCA GGC TCC ACT GGT GAC ATT GTG ATG ACC CAA TCT L W V L L L W V P G S T G D I V M T Q S	-	STT V	S	TAT TAC	FT F	AAG GTG GAT K V D	ACG	AAC AGG N R
ပ္ပွ		AGT	GAG	TAT	ATC I	TGG W	CHG L	AAC N
CCA P		S o	CTA GAG	GTC	TTC ATC 7 F I	CAG	ACC	TTC
GTT V		AGC S	N -CDR2	GCA A	GTC V	GTA V	AGC	AGC S
TGG ¥		TGC AAG GCC AGC C K A S	GTT GCA TCC AAT V A S N	GAT GTT GCA D V A	S V	GCC AAA GTA A K V	AGC AGC S S	GTC ACA AAG AGC
D L	1	AAG K	GCA	GAT	CT.	GCC A	CTC	A CA
CTG L		ភិពី ೧ 🕂	GTT V	GAG	දි අ	GAG	AGC	GTC V
CTG		AAC N	TAT Y	gcg A	GCT A	AGA GAG R E	TAC	CCC
GTG V	der-	ATC	CTC ATC	CAG O	GTG v	CCC P G	AGC ACC S T	TCG
TGG W	Leader	ACC	CHC	CTG	ACT	TAT	AGC	AGC
CTA		GCC A	CTC	TCT S	CGA R	TTC	GAC	CTG
ST J		AGG R	AAA ×	AGT	A ¥	AAC	AAG K	ညီဗ
		GAG	CA CCC P P	ATC		AAT	AGC S	CAG
ACA T		GGT G	SC P	ACC T	GAA	CTG	GAC	CAT
GAC	•	GT3	S O	CTC	AAG GTG GAA K V E	GT ₃	80	ACC
ATG GAG ACA GAC ACA ATC M E T D T I		GTG TCT CTA GGT GAG V S L G E	AAA CCA GGA CAG CCA CCC K P G Q P P	GAC TTC ACC CTC ACC ATC D F T L T I	GGT ACC AAG GTG GAA ATC G T K V E I	GTT GTG TGC CTG CTG AAT V V C L L N	GTC ACA GAG CAG GAC AGC V T E Q D S	TGC GAA GTC ACC CAT CAG
GAG		GTG V	S a	TTC	ACC T	GTG V	ACA T	GAA
ATG M	;	GCT A	AAA	GAC	GGT G	GTT V	D >	TGC C

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TRX1 Light Chain Nucleic Acid Sequence FIGURE 3B

CCTGACGCTGAGCAAAGCAGACTACGAGAAACACAAAGTCTACGCCTGCGAAGTCACCCATCAGGGCCTGAGC TGTGATGACCCAATCTCCAGATTCTTTGGCTGTGTCTCTAGGTGAGGGGCCACCATCAACTGCAAGGCCAGCC GCCTCTGTTGTGTGCCTGCTGAATAACTTCTATCCCAGAGAGGCCAAAGTACAGTGGAAGGTGGATAACGCCC1 CCAATCGGGTAACTCCCAGGAGAGTGTCACAGAGCAGGACAGGACAGGACAGCACCTACAGCTCAGCAGCAC AAAGTGTTGATTATGATGGTGATAGTTATATGAACTGGTATCAACAGAAACCAGGACAGCCACCCAAACTCCT ATTACTGTCAGCAAAGTCTTCAGGACCCTCCGACGTTCGGTGGAGGTACCAAGGTGGAAATCAAA CGAACTGTGGCTGCACTATCTGTCTTCATCTTCCCGCCATCTGATGAGCAGTTGAAATCTGGAACT ATGGAGACAGACACAATCCTGCTATGGGTGCTGCTGCTCTGGGTTCCAGGCTCCACTGGTGACAT CAGTGGGTCTGGGACAGACTTCACCCTCACCATCAGTTCTCTGCAGGCGGAGGATGTTGCAGTCT CATCTATGTTGCATCCAATCTAGAGTCTGGGGTCCCAGACAGGTTTAGTGG TCGCCCGTCACAAAGAGCTTCAACAGGGGAGAGTGTTAG App No.: Not Yet Assigned Docket No.: TLN-022

Inventor: Dawn Windsor-Hines et al.

Title: INDUCING TOLERANCE IN PRIMATES

TRX1 Light Chain Amino Acid Sequence with CDRs Highlighted FIGURE 3C

With leader sequence:

METDTILL WVLLL WVPGSTGDIVMTQSPDSLAVSLGERATINCKASQSVDYDGDSYMNWYQQKPG TVAALSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKDSTYSL QPPKLLIYVASNLESGVPDRFSGSGSGTDFTLTISSLQAEDVAVYYCQQSLQDPPTFGGGTKVEIKR SSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC

Without leader sequence:

ASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEV FSGSGSGTDFTLTISSLQAEDVAVYYCQQSLQDPPTFGGGTKVEIKRTVAALSVFIFPPSDEQLKSGT DIVMTOSPDSLAVSLGERATINCKASQSVDYDGDSYMNWYQQKPGQPPKLLIYVASNLESGVPDR THQGLSSPVTKSFNRGEC

App No.: Not Yet Assigned Doo Inventor: Dawn Windsor-Hines et al.
Title: INDUCING TOLERANCE IN PRIMATES

Docket No.: TLN-022

FIGURE 3D TRX1 Heavy Chain

AAG K	- 8 0 -	ACA T	TTT F	D	၁၅၅	ည မ	GCCG	TC V	A K
	GTG AAG GTG TCT GGA TAC ACA TTC ACT GCC TAT GTT ATA AGC TGG CAG GCA CCT GGA CAG V K V S C K A S G Y T F T A Y V I S W V R Q A P G Q CONTROL OF	A DA	2GG 1	GGG ACA CTA GTC ACA GTC TCC ACC AAG GGC CCA TCG GTC TTC CCC CTG GCA CCC TCC TCC AAG AGC ACC G I L V I V S S A S I K G P S V F P L A P S S K S I PR4		GCT GTC CTA CAG TCC TCC TCC AGC AGC GTG GTG ACC GTG CCC TCC AGC AGC TTG GGC ACC CAG ACC		CTC GCG GGG GCA CCG TCA GTC TTC CCC CCA AAA CCC AAG GAC ACC CTC ATG ATC TCC CGG ACC CCT GAG GTC	GAC GTG AGC CAC GAA GAC CCT GAG GTC AAG TTC AAC TGG TAC GTG GAC GGC GTG GAG GTG CAT AAT GCC AAG ACA AAG D V S H E D P E V K F N W Y V D G V E V H N A K T K
A a	F. F.	G A G	GT C S 3	AG A	O F	ე ე ⊩	၁၂၅	Ę, d	AG A
Çi∢ Live	104	Į.	6. 25. 4. 25. 7. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4.	S S	TG A	₹ 200	A T) L	A CC A
ATC TIT CIC CTC ATC CTG TCA GGA ACT CGA GGT CCC CAG GTT CAG CTG GTG CAG TCT GGA GCT GAA GTG	CAG G Q	M M	AC G	S S	۵۵۹ ا	ភិកិ ភ	AC A	, RG P	AT A
S G		₹ : 5 ⊩ :	5 5 5 5 7	CC T	ည် ဗ	S GC T	L L	သည်။	A TA'
5 0 T	FRI-	TC A	S 22.	GCA O	S CA	gc _b	AAA A	1 1	D N
5. 0	TGG G	AGG G	GA T	TG G	A A	S CC A	AC A	ATG A	AG G
ilg G	AGC I	, 56. 6. 5.	5 4	0 00	8 GG	20 T	D LS	CIC A	o DI
98.0	TA A	K K	i i	GTC TTC CCC V F P Constant	S I) TG O	S S) DOI	ပ္ပ်ပ္
ř. T.	T GTT 7 V V	TC A	Y Y	v v Cons	V V	1 CC	AA X	GAC P	P C C
S S O	Y Y	K X	Y .	ည်မှု	9) Y C	7 OC 7	AAG O	37G V
ည်အ	GCC 1	BAG P	V V	C P J	v V) YTG O	B B C	d 202	AC O
SAG 7	10 to 1	N	90g d	၁ ၁၅) 100 100 100 100 100 100 100 100 100 10	၁ ၁၅) V	AAA O	ညီ အ
STC O	rrc #	Y Y	4CT C	K K	E BA	S S	A X	CCA 7	Z AC
GGT C	Q F	FAT 7	BAC /	T T	ည္မ	TC 7	K K	200	F.
R GA	rac 7	GGA GAG ATT TAT CCT GGA AGC GGT AGT TAT TAT AAT GAG AAG TTC AAG GGC AGG GTC ACA ATG ACT AGA GAC G E I Y P G S G S Y Y N E K F K G R V T M T R D> <	TAC ATG GAA CTC AGC AGC CTG AGG TCT GAG GTC TAT TAC TGT GCA AGA TCC GGG GAC GGC AGT CGG Y M E L S S L R S E D T A V Y Y C A R S G D G S R	1 2 J	GCC CTG GGC TGC CTG GTC AAG GAC TTC CCC GAA CCG GTG ACG TGG AAC TCA GGC GCC CTG ACC AGC	ည်င	AAT CAC AAG CCC AGC AAC AAC GTG GAC AAG AAA GTT GAG CCC AAA TCT TGT GAC AAA ACT CAC ACA TGC CCA N H K P S N T K V D K K V B P K S C D K T H T C P	rrc (Z X
P F F	gg o	AGT / S	S	GCC :	Y	rac 7	STG (CIC	STC /
ggy o	S	GGT .	AGG ,	TCA (GAC ,	CHC .	AAG (FF	GAG (
ICA S	3CT A	AGC (CIG	rcc ,	AAG K	gg b	ACC 7	GTC '	
CHG I	AAG (GGA G	AGC S R3	GTC	GTC V	S S	AAC N	TCA S	GAC
ATC	rgr .	CCT	AGC S	ACA H	CTG	ည်င	AGC	. 500 d.	E GAA
ວິນ ໄ	TCC TGT S C	TAT Y	CHO	GTC V	13C	Cag) di	GCA	CAC
ភ្ជា	GTG	ATT	GAA	CA CTA F L FR4	ည္မမ	£ 1	AAG K	999	AGC S
TTT F	AAG K	GAG E <	ATG M	ACA T	Cig	Grc V	CAC	GCG A	GTG V
ATC	GTG	GGA GAG G E	TAC	ევც	900 P	A A	AAT	CHC	GAC
ენ S	TCA s	ATG M	GTC	₹ o	900 A	ည် က	GTG	GAA	GTG V
ATC	CCT GGG GCT TCA (CTT GAG TGG ATG	ACA	ပ္ပစ္ဗ	GGG GGC ACA GCG	TTC	AAC N	CCT	GTG
TGG ₩	999	GAG	AGC S	TGG W	299	ACC	7gc 0	GCA A	GTG V
ATG GAA TGG ATC TGG M E W I W	CCT P	CIT	ACC AGC ACA GTC	TAC TGG GGC CAA (Y W G Q	999	GTG CAC ACC TTC CCG	TAC ATC TGC AAC GTG Y I C N V	TGC CCA GCA CCT GAA C P A P E	ACA TGC GTG GTG GTG T C V V V
ATG M	AAG K	ည္မွ	TCC s	GTT	TCT	GTG V	TAC	TGC C	A CA

App No.: Not Yet Assigned Doo Inventor: Dawn Windsor-Hines et al.
Title: INDUCING TOLERANCE IN PRIMATES Docket No.: TLN-022

TGC)) (4)	AGC S	AAG K	55 d :
AAG 7	CTG (GAG 1	GAC 1	TCT (
TAC	ACC 1	TGG .	GTG V	CTG L
GAG	TAC	GAG	ACC T	TCC S
AAG K	3TG	GTG V	ğ a	ពីជ
ည္သမွ	CAG O	GCC A	AAG K	AGC
AAT	CCA CAG	ATC I	AGC AAG C	AAG K
CTG	GAA	GAC	TAC Y	Sg o
1G 1G	CGA R	AGC	ភ្ជា	ACG
CAG GAC Q D	22) D D	TTC F	TAC
800	GGG CAG G	TAT	TTC	CAC
CAC	999	TTC	S	N N
ភូក	GCC AAA A	၁၉၅	GAC GGC D	CAC
GTC	GCC A	AAA K	GAC	CHO Th
ACC	AA ×	GTC	70C 8	P &
Ę, i	TCC AAA S K	CTG	GAC	GAG
GTC	ACC ATC	TGC	CTG GAC TCC (CAT
AGC	ACC 1	ACC	GTG V	ATG M
GTC V	AAA	CIG L) D	GTG V
GTG V	GAG	AGC	CCT P	TCC
CGT R	ATC	GTC	ACG	TGC C
TAC))	85 O	ACC	TÇ. S
ACG	GCC A	AAC N	AAG K	TTC
AGC S	CCA	AAG K	TAC	GTC v
AAC	OTC L	ACC	AAC N	AAC N
TAC	GCC A	CTG	AAC N	99 0
CAG	AAA	GAG	GAG	CAG
CGG GAG GAG	AAC	GAT	000 600	CAG
GAG	TCC S	CGG	Sg o	TGG ×
CGG	AAG GTC TCC AAC AAA K V S N K	CCA TCC CGG GAT GAG P S R D E	AAT GGG CAG CCG GAG N G Q P E	AGC AGG TGG CAG CAG S R W Q Q
CCC	AAG	AD a	N N	AGC

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ATGGAATGGATCTGGATCTTTCTCCTCATCCTGTCAGGAACTCGAGGTGTCCAGTCC **ATTACTGTGCAAGATCCGGGGACGGCAGTCGGTTTGTTTACTGGGGCCAAGGGACA** CTCCTCCAAGAGCACCTCTGGGGGCACAGCGGCCCTGGGCTGCCTGGTCAAGGAC CGTGGACGCGTGGAGGTGCATAATGCCAAGACAAAGCCGCGGGGAGGAGCAGTAC GTGACCGTGCCCTCCAGCAGCTTGGGCCACCCAGACCTACATCTGCAACGTGAATCA AGGTGTCCTGTAAGGCTTCTGGATACACATTCACTGCCTATGTTATAAGCTGGGTGA GGCAGGCACCTGGACAGGGCCTTGAGTGGATGGGAGGATTTATCCTGGAAGCGG TAGTAGTTATTATAATGAGAAGTTCAAGGGCAGGGTCACAATGACTAGAGACACATC CACCAGCACAGTCTACATGGAACTCAGCAGCCTGAGGTCTGAGGACACTGCGGTCT CTAGTCACAGTCTCCTCAGCCTCCACCAAGGGCCCATCGGTCTTCCCCCTGGCACC TACTTCCCCGAACCGGTGACGGTGTCGTGGAACTCAGGCGCCCTGACCAGCGGCG TGCACACCTTCCCGGCTGTCCTACAGTCCTCAGGACTCTACTCCCTCAGCAGCGTG CCTCTTCCCCCCAAAACCCAAGGACACCCTCATGATCTCCCGGACCCCTGAGGTCA CAAGCCCAGCAACACCAAGGTGGACAAGAAAGTTGAGCCCAAATCTTGTGACAAAA CAGGTTCAGCTGGTGCAGTCTGGAGCTGAAGTGAAGAAGCCTGGGGCTTCAGTGA CATGCGTGGTGGACGTGAGCCACGAAGACCCTGAGGTCAAGTTCAACTGGTA AACAGCACGTACCGTGTGGTCAGCGTCCTCACCGTCCTGCACCAGGACTGGCTGA CTCACACATGCCCACCGTGCCCAGCACCTGAACTCGCGGGGGGCACCGTCAGTCTT Chain Nucleic Acid Sequence FIGURE 3E Heavy TRX1

Do

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Inventor: Dawn Windsor-Hines et al.

Title: INDUCING TOLERANCE IN PRIMATES

ATGGCAAGGAGTACAAGTGCAAGGTCTCCAACAAAGCCCTCCCAGCCCCCATCGAG AAAACCATCTCCAAAGCCAAAGGGCAGCCCCGAGAACCACAGGTGTACACCCTGCC GGCTTCTATCCCAGCGACATCGCCGTGGAGTGGGAGAGCAATGGGCAGCCGGAGA CCGTGATGCATGAGGCTCTGCACAACCACTACACGCAGAAGAGGCCTCTCCCTGTCT ACAACTACAAGACCACGCCTCCCGTGCTGGACTCCGACGGCTCCTTCTTCCTCTAC AGCAAGCTCACCGTGGACAAGAGCAGGTGGCAGCAGGGGGAACGTCTTCTCATGCT CCGGGTAAATGA App No.: Not Yet Assigned Docket No.: TLN-022

Inventor: Dawn Windsor-Hines et al.

Title: INDUCING TOLERANCE IN PRIMATES

TRX1 Heavy Chain Amino Acid Sequence with CDRs Highlighted **FIGURE 3F**

With leader sequence:

LPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGS RTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKA LYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELAGAPSVFLFPPKPKDTLMIS TLVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSG MEWIWIFLLILSGTRGVQSQVQLVQSGAEVKKPGASVKVSCKASGYTFT**AYVIS**WVRQAPGQGLEW MGEIYPGSGSSYYNEKFKGRVTMTRDTSTSTVYMELSSLRSEDTAVYYCARSGDGSRFVYWGQG FFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

Without leader sequence:

DGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPS RDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVM KPSNTKVDKKVEPKSCDKTHTCPPCPAPELAGAPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYV PSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNH KGRVTMTRDTSTSTVYMELSSLRSEDTAVYYCARSGDGSRFVYWGQGTLVTVSSASTKGPSVFPLA QVQLVQSGAEVKKPGASVKVSCKASGYTFT**AYVIS**WVRQAPGQGLEWMG**EIYPGSGSSYYNEKF** HEALHNHYTQKSLSLSPGK

.App No.: Not Yet Assigned Doo Inventor: Dawn Windsor-Hines et al.
Title: INDUCING TOLERANCE IN PRIMATES

TRX1 Light Chain FIGURE 4A

TTG	CAG	ACA T	GGA G	TCT s	AGT	GCC A	
101		999	GGT			TAC	
D	Y	rcr s	FTC	ACT	CAG (GTC '	
P P	TGG Y	99 0	AGG .	GGA ACT GCC G T A	FCC (KAA .	
S FR1-	AAC N	AGT (500 A	S S	PAC :	CAC H	
A o	ATG N	GGC G	T)	AAA 1	G G	K X	
CTG CTA TGG GTG CTG CTG GTT CCA GGC TCC ACT GGT GAC ATT GTG ATG ACC CAA TCT CCA GAT TCT L L W V P G S T G D I V M T Q S P D S L L L W V P G S T G D I V M T Q S P D SLeader	AGG GCC ACC ATC AAC TGC AAG GCC AGC CAA AGT GTT GAT TAT GAT GGT GAT AGT TAT ATG AAC TGG TAT CAA R A T I N C K A S Q S V D Y D G D S Y M N W Y Q	CTC ATC TAT GTT GCA TCC AAT CTA GAG TCT GGG GTC CCA GAC AGG TTT AGT GGC AGT GGG TCT GGG L I Y A A S N L E S G V P D R F S G S G S G CONTROL -> <	CTG CAG GCG GAG GAT GTT GCA GTC TAT TAC TGT CAG CAA AGT CTT CAG GAC CCT CCG ACG TTC L Q A E D V A V Y Y C Q Q S L Q D P P T F		AAC TTC TAT CCC AGA GAG GCC AAA GTA CAG TGG AAG GTG GAT AAC GCC CTC CAA TCG GGT AAC TCC CAG GAG N F Y P R E A K V Q W K V D N A L Q S G N S Q E	AAG GAC AGC ACC TAC AGC AGC ACC CTG ACG CTG AGC AAA GCA GAC TAC GAG AAA CAC AAA K D S T Y S L S S T L T L S K A D Y E K H K	
ATG M	AGT	TTT	GAG CDR3	CAG TTG Q L	CAA	TAC Y	
GTG V	GAT	AGG	CTT CAG	GAG E	CTC	GAC	
ATT	GGT	GAC	AGT	GAT	GCC A	gc _s	TAG
GAC D	GAT GGT D G	CCA P	\$ 0	TCT S	AAC	A X	TGT O
GGT G .	TAT Y R1	GTC	CAG	CCG CCA P P Constant	GAT D	AGC	GAG
P P P	GAT TAT D Y	GGG GTC 9 V 6	TGT C	TTC CCG CCA F P P Constant	GTG	CTG	GGC CTG AGC TCC ACA AAG AGC TTC AAC AGG GGA GAG G L S S P V T K S F N R G E
ည္သင္တ	GTT V	TCT s	TAC	TTC	AAG K	ACG	AGG
ပ္တိ ဗ	AGT	GAG	TAT	ATC	TGG	CTG	AAC
<u>წ</u> ო	8 0	GTA	GTC V	TTC	CAG	ACC H	TTC
CTT V	AGC	AAT N -CDR2	A GC		GTA	AGC s	AGC
9g <u>₹</u>	QCC ▼	TCC A	GTT V	TCT GTC S V	AA ×	AGC	AAG K
E 4	AAG K	GCA A	GAT	CC P	GCC	SF 1	P CA
£ 1	ည်ပ	TAT GTT Y V > <	GAG E	gg 4	GAG	AGC	GTC V
0.13 1.13	AAC	TAT Y	gcg A	GCT A	AGA R	TAC) 4
GTG V	ATC	ATC	S o	GTG V) 200	ACC T	TCG s
TGG GTG W V Leader	ACC	CHC		ACT	TAT	AGC	AGC
g u	GCC	AAA CTC K L	AGT TCT S S	CG R	TTC	GAC	ភ្ជិក
ភ្ជុំ	AGG R	A A	AGT	AAA K	A A C	AAG K	ည္မွ
	GAG E		ATC	AAG GTG GAA ATC K V E I FR4	AAT	AGC	85 o
₽ F	GGT	CCA CCC P P	ACC	GAA	Cig	GAC	CAT H
O D	CTA	CAG O	CHC	GTG V FR4	Cig	85 O	ACC
ATG GAG ACA GAC ACA ATC M E T D T I	GCT GTG TCT CTA GGT GAG A V S L G E	AAA CCA GGA CAG CCA CCC K P G Q P P	GAC TTC ACC CTC ACC ATC D F T L T I	GGT ACC AAG GTG GAA ATC G T K V E I	GTT GTG TGC CTG CTG AAT V V C L L N	GTC ACA GAG CAG GAC AGC V T E Q D S	TGC GAA GTC ACC CAT CAG
GAG E	GTG V	S P	TTC	ACC T	GTG V	ACA H	GA.A
ATG	GCT.	AAA ×	GAC	GGT	GTT	orc v	ည် ပ

Docket No.: TLN-022

Inventor: Dawn Windsor-Hines et al.

Title: INDUCING TOLERANCE IN PRIMATES

Docket No.: TLN-022

FIGURE 4B TRX1 Light Chain Nucleic Acid Sequence

TGTGATGACCCAATCTCCAGATTCTTTGGCTGTGTCTCTAGGTGAGAGGGCCACCATCAACTGCAAG GCCAGCCAAAGTGTTGATTATGATGGTGATAGTTATATGAACTGGTATCAACAGAAACCAGGACAG AACGCCCTCCAATCGGGTAACTCCCAGGAGAGTGTCACAGAGCAGGACAGCAAGGACAGCACCTA GCCTCTGTTGTGTGCCTGCTGAATAACTTCTATCCCAGAGAGGCCAAAGTACAGTGGAAGGTGGAT ATTACTGTCAGCAAAGTCTTCAGGACCCTCCGACGTTCGGTGGAGGTACCAAGGTGGAAATCAAA CGAACTGTGGCTGCACCATCTGTCTTCATCTTCCCGCCATCTGATGAGCAGTTGAAATCTGGAACT CAGCCTCAGCACACCTGACGCTGAGCAAAGCAGACTACGAGAAACACAAAGTCTACGCCTGCG ATGGAGACAGACACAATCCTGCTATGGGTGCTGCTGCTCTGGGTTCCAGGCTCCACTGGTGACAT CCACCCAAACTCCTCATCTATGTTGCATCCAATCTAGAGTCTGGGGTCCCAGACAGGTTTAGTGG CAGTGGGTCTGGGACAGACTTCACCCTCACCATCAGTTCTCTGCAGGCGGAGGATGTTGCAGTCT AAGTCACCCATCAGGGCCTGAGCTCGCCCGTCACAAAGAGCTTCAACAGGGGAGAGTGTTAG App No.: Not Yet Assigned Inventor: Dawn Windsor-Hines et al. Docket No.: TLN-022

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TRX1 Light Chain Amino Acid Sequence with CDRs Highlighted **FIGURE 4C**

With leader sequence:

METDTILL WVLLL WVPGSTGDIVMTQSPDSLAVSLGERATINCKASQSVDYDGDSYMNWYQQKPG TVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKDSTYSL QPPKLLIYVASNLESGVPDRFSGSGSGTDFTLTISSLQAEDVAVYYCQQSLQDPPTFGGGTKVEIKR SSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC

Without leader sequence:

ASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEV FSGSGSGTDFTLTISSLQAEDVAVYYC**QQSLQDPPT**FGGGTKVEIKRTVAAPSVFIFPPSDEQLKSGT DIVMTQSPDSLAVSLGERATINCKASQSVDYDGDSYMNWYQQKPGQPPKLLIYVASNLESGVPDR THQGLSSPVTKSFNRGEC

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TRX1 Heavy Chain (aglycosyl) FIGURE 4D

×	CAG	ACA T	F	ACC	299	ACC	CCG	GTC V	
MEWINIELSGIRGVOSOVOLVOSGAEVK	SG.	GAC	99 24	AGC	AGC	CAG	S a	GAG	
ш	Ę d	AGA R	AGT S R3	AAG K	ACC	ACC	7gc 0	r F	
ď	95 4	ACT	GGC AGT G S CDR3-	TCC	CTG L	ည္မမ	ACA T	AgC □	
ტ	CAG O - FR2	ATG	GAC	TCC	GCC A	TTG	CAC	gg ≈	
ß	AGG	ACA T	999	CCC 4	ညည	AGC S	ACT	77C 8	
o E	GG GTG AGG	GTC v	TCC GGG S G	∯ 4	TCA	AGC	AAA K	ATC	
>	TGG × v	AGG R	AGA R	CTG L	AAC N	TCC S	GAC D	ATG M	
ב	AGC S	၁၅၅ ရှင်	GCA A	CCC P	TGG ▼	ე _შ	TGT C	ρ Γ Ι	
ø	ATA	AAG K	TGT O	TTC F Istan	TCG	GTG V	TCT S	ACC T	
>	GTT V	TTC	TAC	CA TCG GTC TTC CCC P S V F P	GTG V	ACC	AAA K	GAC	
σ,	TAT Y	AAG K	TAT Y	TCG	ACG T	GTG V	- d	AAG K	
S	ACT GCC TAT GTT ATA AGC TGG T A Y V I S W	GAG	GTC V	CCA	GTG V	GTG V	GAG	ည် ရ	
o	ACT T	AAT N	GCG A	ည္သမ္မ	1 1 1 1	AGC	GTT V	AAA *	
>	TTC	TAT	ACT	AAG K	GAA	AGC	AAA K	<u>ئ</u> م	
O	ACA 4	TAT	GAC	ACC H	CCC	CH 7	AAG K	ည် 🚜	
œ	TAC	GT AGT S S CDR2-	GAG E	TCC s	TTC	ည္သင္မ	GAC	TTC	
⊢	GGA G	AGT S	ည်း	TCA GCC S A	TAC	TAC	GTG V	다. 다.	
ტ	rcr	GGT	AGG R	TCA S	GAC	55 7	AAG K	TTC	
S	GCT A	AGC	CIG	TCC s	AAG K	GGA	ACC T	GTC V	
,i	AAG K	gg a	AGC S R3	GTC	GTC V	τζ 8	AAC	TCA S	
H 3	TGT C	CC.	CTC AGC AGC L S S	ACA H	CTG	ည္သင္	AGC S	ည် မ	
ָרַ בּ	TCC	TAT	D 1	GTC	7GC C	CAG	ပ္ပ	GGA	
,ı	GTG TCC TGT	ATT	GAA B	CA CTA T L	ည်	Ę 1	AAG K	999	
<u>ը</u> ,	AAG K	GAG E	ATG	ACA H	CTG 1	GTC V	CAC	CTG	
н	GTG V	GGA GA	TAC	999	200 €	A GCT	N N	5 1	
3	TCA S	ATG M	GTC V	₹ α	92G A	g 4	GTG V	GAA	
н	CCT GGG GCT ICA GTG AAG GTG TCT GGA TAC ACA TTC ACT GCC TAT GTT ATA AGC TGG GTG AGG CAG GCA CCT P G A S V K V S C K A S G Y T F T A Y V I S W V R Q A P C T G C C C C C C C C C C C C C C C C C	GGC CIT GAG TGG ATG GGA GAT TAT CCT GGA AGC GGT AGT TAT TAT AAT GAG AAG TTC AAG GGC AGG GTC ACA ATG ACT AGA GAC G L E W M G E I Y P G S G S Y Y N E K F K G R V T M T R D	TCC ACC ACA GTC TAC ATG GAA CTC AGC CTG AGG TCT GAG GAC ACT GCG GTC TAT TAC TGT GCA AGA TCC GGG GAC GGC AGT S T S T V Y M E L S S L R S E D T A V Y Y C A R S G D G S CDR3	GTT TAC TGG GGC CAA GGG ACA CTA GTC TCC TCA GCC TCC ACC AAG GGC CCA TCG GTC TTC CCC CTG GCA CCC TCC TCC AAG AGC ACC V Y W G Q G T L V T V S S A S T K G P S V F P L A P S S K S T T C CCC CTG GCA CCC TCC TCC TCC TCC TCC AAG AGC ACC	TCT GGG GGC ACA GCG GCC TG CTG GTC AAG GAC TAC TTC CCC GAA CCG GTG ACG GTG TGG TAC TCA GGC GCC CTG ACC AGC GGC S G G T A A L G C L V K D Y F P E P V T V S W N S G A L T S G	GTG CAC ACC TTC CCG GCT GTC CTA CAG TCC TCC TCC AGC AGC GTG GTG ACC GTG CCC TCC AGC AGC TTG GGC ACC CAG ACC V T V P S S S L G T Q T	TAC ATC TGC AAC GTG AAT CAC AAG GAC AAG GTG GAC AAG AAA GTT GAG CCC AAA TCT TGT GAC AAA ACT CAC ACA TGC CCA CCG Y I C N V N H K P S N T K V D K K V E P K S C D K T H T C P P	TGC CCA GCA CCT GAA CTC CTG GGG GGA CCG TCA GTC TTC CCC CCA AAA CCC AAG GAC ACC CTC ATG ATC TCC CGG ACC CCT GAG GTC C P A P E L L G G P S V F L F P P K P K D T L M I S R T P E V	
3	999	GAG	AGC	TGG × ×	ည္သစ္သ	ACC	ည် ပ	GCA A	
ចា	CC	CTT	ACC	TAC Y	999 0	CAC	ATC	G ^d	
Σ	AAG K	ည္မွ	JCC S	GTT V	rict s	GTG V	TAC	ာ်င္ပ	

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Title: INDUCING TOLERANCE IN PRIMATES Docket No.: TLN-022

7GC C) 100 100 100 100 100 100 100 100 100 10	AGC S	AAG K	SS of !	
AAG 1	CTG	GAG A	GAC A	TCT o	
TAC /	ACC (TGG 0	STG ^	CTG	
SAG .	¥ ¥	GAG '	ACC O	S	
AAG GAG K E	GTG '	GTG (CTC ACC (CTC TCC	
ညည	S S) A	AAG K	AGC S	
AAT	P G	ATC I	AGC	× kg	
CTG	GAA	GAC	TAC	CAG	
TGG W	CGA R	AGC	CTC	ACG T	
GAC TGG CTG AAT GGC D W L N G	CCC CGA GAA CCA	CCC AGC GAC ATC O	TIC CTC TAC AGC AAG	TAC ACG CAG A	
CAG	SAG O	TTC TAT	TTC F	CAC H	
H H	AAA GCC AAA GGG CAG K A K G Q	TTC	ည္သင္တ	AAC	
ACC GTC CTG C T V L	AAA K	GTC AAA GGC	TCC GAC GGC 1 S D G	CAC	
GTC V	90C	A A	GAC	CTG	
ACC	AAA M	GTC >	TCC	GCT	
Ę i	ည်င	CTG ACC TGC CTG	GAC	GAG	
GTC	L	ည်ပ	CTG	CAT	
GTG GTC AGC GTC V V S V	GAG AAA ACC FEER TEER	ACC	CCT CCC GTG CTG P V L	GTG ATG	
GTC v	AAA K	CTG) A	GTG v	
GTG V	GAG	AGC	CCT	377 8	
rg z	ATC I	GTC V	ACG T	ည္မင	
TAC	ည်မှု	CAG	AAC TAC AAG ACC ACG N Y K T T	TCA TGC	
ACG	۵ کور	Z Z	AAG K	TTC	
GCC AGC ACG A S T	CTC CCA GCC (ACC AAG 7 T K	TAC	GTC V	
986	E 4	ACC	AAC	AAC	
TAC	GCC A	OTO T	AAC	999	
CAG	AAA K	GAG	GAG	SAG	
GAG	AAC	GAT	ව්ව	CAG	
GAG	TCC	000 R	CAG O	TGG W	TGA
CCG CGG GAG GAG CAG	AAG GTC TCC AAC AAA K V S N K	CCA TCC CGG GAT GAG P S R D E	AAT GGG CAG CCG GAG N G Q P E	AGC AGG TGG CAG S R W Q Q	GGT AAA TGA
م درد و	AAG K	CCA	AAT	AGC S	GGT

Inventor: Dawn Windsor-Hines et al.

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FIGURE

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CCCAGACCTACATCTGCAACGTGAATCACAAGCCCAGCAACACCCAAGGTGGACAAGATTGAG CTCCAAGAGCACCTCTGGGGGCACAGCGGCCCTGGGCTGCCTGGTCAAGGACTACTTCCCCGAA TCACAATGACTAGAGACACATCCACCAGCACAGTCTACATGGAACTCAGCAGCCTGAGGTCTGAG ACATGCGTGGTGGTGGACGTGAGCCACGAAGACCCTGAGGTCAAGTTCAACTGGTACGTGGACG GTGGATGGGAGAGTTTATCCTGGAAGCGGTAGTAGTTATTATAATGAGAAGTTCAAGGGCAGGG CGTCAGTCTTCCTCCCCCCAAAACCCAAGGACACCCTCATGATCTCCCGGACCCCTGAGGTC GAACCACAGGTGTACACCCTGCCCCCATCCCGGGATGAGCTGACCAAGAACCAGGTCAGCCTGA CTACAGTCCTCAGGACTCTACTCCCTCAGCAGCGTGGTGACCGTGCCCTCCAGCAGCTTGGGCA GCGTGGAGGTGCATAATGCCAAGACAAAGCCGCGGGAGGAGGAGTACGCCAGCACGTACCGTG ATGGAATGGATCTGGATCTTTCTCCTCATCCTGTCAGGAACTCGAGGTGTCCAGTCCCAGGTTCA GCTGGTGCAGTCTGGAGCTGAAGTGAAGAGCCTGGGGCTTCAGTGAAGGTGTCCTGTAAGGCT GGACACTAGTCACAGTCTCCTCAGCCTCCACCAAGGGCCCATCGGTCTTCCCCCTGGCACCCTC CCGGTGACGGTGTCGTGGAACTCAGGCGCCCTGACCAGCGGGGGTGCACACCTTCCCGGCTGTC CCCAAATCTTGTGACAAAACTCACACATGCCCACCGTGCCCAGCACCTGAACTCCTGGGGGGC TGGTCAGCGTCCTCACCGTCCTGCACCAGGACTGGCTGAATGGCAAGGAGTACAAGTGCAAGGT CTCCAACAAAGCCCTCCCAGCCCCCCATCGAGAAAACCATCTCCAAAGGCCAAAGGGGCAGCCCCGA TRX1 aglycosyl mut Heavy Chain Nucleic Acid Sequence

Inventor: Dawn Windsor-Hines et al. Title: INDUCING TOLERANCE IN PRIMATES

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GGAGAACAACTACAAGACCACGCCTCCCGTGCTGGACTCCGACGGCTCCTTCTTCCTCTACAGCA CCTGCCTGGTCAAAGGCTTCTATCCCAGCGACATCGCCGTGGAGTGGGAGAGCAATGGGCAGCC AGCTCACCGTGGACAAGAGCAGGTGGCAGCAGGGGGAACGTCTTCTCATGCTCCGTGATGCATGA GGCTCTGCACAACCACTACACGCAGAAGAGCCTCTCCCTGTCTCCGGGTAAATGA

FIGURE 4F

App No.: Not Yet Assigned Inventor: Dawn Windsor-Hines et al.

Title: INDUCING TOLERANCE IN PRIMATES

TRX1 Heavy Chain aglycosyl mut Amino Acid Sequence with CDRs Highlighted

With leader sequence:

TKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSS DVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYASTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIE YPGSGSSYYNEKFKGRVTMTRDTSTSTVYMELSSLRSEDTAVYYCARSGDGSRFVYWGQGTLVTVSSAS KTISKAKGOPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFF LGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVV MEWIWIFLLILSGTRGVQSQVQLVQSGAEVKKPGASVKVSCKASGYTFT**AYVIS**WVRQAPGQGLEWMGEI LYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

Without leader sequence:

EVHNAKTKPREEQYASTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPP QVQLVQSGAEVKKPGASVKVSCKASGYTFT**AYVIS**WVRQAPGQGLEWMG**EIYPGSGSSYYNEKFKG**RVT AALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKV SRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFS MTRDTSTSTVYMELSSLRSEDTAVYYCAR**SGDGSRFVY**WGQGTLVTVSSASTKGPSVFPLAPSSKSTSGGT DKKVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGV CSVMHEALHNHYTQKSLSLSPGK

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Inventor: Dawn Windsor-Hines et al.
Title: INDUCING TOLERANCE TO PROTEINS IN PRIMATES

HEAVY CHAIN

FIGURE 5

9

20

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20

10

Sequence Range: 1 to 1356

CTC Ly	120 GCT A>	180 TAT Y>	240 TAC Y>	300 CAC H>	360 TCC S>	420 TCT S>	480 GTG V>	540 TCC S>
AGA R	CAG	TTC	CIA	CCC	GTC	ACC	ACG T	CAG
CTG	CGA R	AAG K	ACC	AAA K	ACA	AGC	GTG	CTA
TCC	110 GTT V	170 AAC N	230 AAG AAC K N	290 GCA A	350 GTC V	10 AAG K	470 CCG P	530 GTC V
AGG R	TGG W	AGT S	AAG K	TGT	CTA L	TCC S	GAA E	GCT A
GGA	AAC	GGT	TCT	TAC	ACA	TCC	CCC	CCG
CCT	100 GGC ATG G M	160 AT GAT ? D	220 GAC AAT D N	280 GTG TAT V Y	£0 GGG	400 CA CCC A P	460 TAC TTC Y F	520 C TTC
CAG		Ë,			340 CAA GC Q C	GCA A		52 ACC T
GTA V	TTT F	TAC	AGG R	GCC	999	CTG	GAC	CAC
GTT V	GAC	ATT	TCC	ACA T	TGG W	CCC	AAG K	GTG V
ည္သည္သ	90 AGT S	150 CTG L	210 ATC I	270 GAC D	330 TCC S	390 TTC	450 GTC V	510 GGC G
GGA	TTC	GCA	ACC	GAG	GAT	GIC	CTG	AGC
GGA	ACT	GTG	TTC	GCT	TTT F	TCG	TGC	ACC
TCT	80 TTC	140 TGG W	200 CGA R	260 CTG AGA L R	320 TTC F	380 GGC CCA G P	440 CTG GGC L G	500 CTG L
GAG E	GGA	GAA	GGT	_	CAC		_	GCC
GTG V	TCT	CTG	AAG K	AGC	TAT	AAG K	GCC	9 9
TTG L	70 GCT A	130 AG GGG K G	190 CT GTG	250 ATG AAC M N	310 3T TAT 3 Y	370 TCC ACC S T	430 ACA GCG T A	490 C TCA
SA O	GCA	1. AAG K	E "	,	GGT		4. ACA T	AAC N
GTT V	TGT	999	GAC	CAA	GAT	GCC A	၁၅၅	TGG
CAG	TCA	CC P d	GCA	CTG	TAT Y	TCA	ტეტ დ	TCG

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600 CAG Q>	660 GAG E>	720 GGG G>	780 ACC T>	840 AAC N>	900 TAC Y>	960 GGC G>	1020 ; ATC I>	1080 CGG GAT R D>	1140 GAC D>	1200
ACC	GTT V	CTG	CGG R	TTC	CAG	AAT N	1020 ACC ATC T I>	CGG R	AGC S	П
9 9	AAA K	CTC	TCC	AAG K	GAG	CTG	AAA K	TCC	CCC	
590 TTG L	650 7 AAG K	710 GAA E	770 ATC I		890 GAG E	950 TGG W	1010 C GAG	1070 C CCA	1130 C TAT	1190
590 AGC TTG S L	650 GAC AAG D K	CCT P	770 ATG ATC M I	830 GAG GTC E V	890 CGG GAG R E	gac D	1010 ATC GAG I E	1070 CCC CCA P P	1130 TTC TAT F Y	11
AGC S	GTG V	GCA	CTC	CCT	CCG	CAG	CCC	CTG	3 9 9	
o TCC S		CCA P	O ACC T	20 GAC D	0 AAG K	CAC H	O GCC A			0
580 CCC TCC P S	640 AAC ACC AAG N T K	700 TGC CCA C P	760 GAC ACC D T	820 GAA GP E I	880 ACA AAG T K	940 CTG CP	1000 CCA GCC P A	1060 TAC ACC Y T	1120 GTC AAA V K	1180
GTG V		CCG	AAG K	CAC	AAG K	GTC	CTC	GTG	CTG	
ACC	AGC	CCA	CCC	AGC	GCC	ACC	GCC	CAG	TGC	
570 GTG V	630 CCC	690 TGC	750 AAA K	810 GTG	870 AAT N	930 CTC L	990 AAA K	1050 A CCA P	1110 CTG ACC L T	1170
GTG	AAG K	ACA	CCA	GAC	CAT	GTC	AAC	1 GAA E		Н
AGC	CAC	CAC	CCC	GTG	GTG V	AGC	TCC	CGA R	AGC	
560 CTC AGC L S	620 GTG AAT V N	680 AAA ACT K T	740 CTC TTC L F	800 GTG GTG V V	860 GTG GAG V E	920 GTG GTC V V	980 AAG GTC K V	1040 CAG CCC Q P	1100 CAG GTC Q V	1160
CTC	GTG	AAA K	CTC		grg V	GTG V	AAG K	10 CAG		11
TCC	AAC	GAC	TTC	TGC	වුල	CGT	TGC C	වුවූ	AAC	
550 CTC TAC L Y	610 ATC TGC I C	670 TCT TGT S C	730 TCA GTC S V	790 GTC ACA V T	850 GTG GAC V D	910 G TAC	970 TAC AAG Y K	1030 GCC AAA A K	1090 ACC AAG T K	0
SE CTC L		67 TCT S		75 GTC V	85 GTG V	91 ACG T	97 TAC Y	1030 GCC AA A F		1150
GGA	TAC	AAA K	CCG	GAG E	TAC	AGC	GAG E	AAA K	CTG	
TCA	ACC	CCC	GGA	CCT	TGG W	AAC	AAG K	TCC	GAG E	

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۲ <u>۵</u>	.260	AGG	\$	320	TAC	ζ,			
д	-	AGC	တ	7	CAC	H			
H		AAG	×		AAC	z			
H	20	GAC	Д	10	CAC	Ħ			
×	12	GTG	>	13	CTG	ij			
>		ACC	E		GCT	æ			
z	0	CIC	ы	0	GAG	ы			
Z	124	AAG	×	130	CAT	н			
ы		AGC	တ		ATG	Σ		TGA	*
Д		TAC	¥		\mathtt{GTG}	>		AAA	×
O	230	CTC	다	1290	TCC	ഗ	1350	GGT	כי
Ö		TTC	ш	_	$^{\mathrm{TGC}}$	Ü	_	SSS	ρ
z		$_{ m IIC}$	Гъ		TCA	ഗ		$_{\rm ICI}$	U
w	220	TCC	w	80	TIC	Ľι	340	CIG	Ŀ
ш	ij	ပ္ပဋ္ဌ	Q	1	GTC	>	금	TCC	ď
×		GAC	Ω		AAC	z		CIC	<u>-</u>
ш	07	TCC	ഗ	20	ggg	Ŋ	30	AGC	ď
>	123	GAC	Ω	12,	CAG	ø	133	AAG	×
æ		CTG	ы		CAG	Ø		CAG	C
н		GTG	>		$^{\mathrm{TGG}}$	Z		ACG	E-
	IAVEWESNGQPENNYKTTPP>	I A V E W E S N G Q P E N N Y K T T P P> 1210 1220 1230 1240 1250 1260	I A V E W E S N G Q P E N N Y K T T P P> 1210 1220 1230 1240 1250 GTG CTG GAC TCC TTC TTC TTC TAC AGC AAG CTC ACG GTG GAC AAG AGC AGG	I A V E W E S N G Q P E N N Y K T T P P> 1210	1	1	1	1	1

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FIGURE 6

LIGHT CHAIN

Sequence Range: 1 to 648

		-	10			20			30			4	10		
	ATC I														
D	-	Q	1.1	1	Q	5	1	5	5		.U	A.		V	0/
50			60							80			90		
GAC D	AGA R	GTG V		ATC		TGT C			AGT S			ATT			TAC Y>
	20	v	-	-	_	J					J	-	••	-,	
	00										30			140	
	GCC A														
	А	**		<u>.</u>				J	IC	Λ	r	K		1.1	1/
	150		~-~						~		180	_ ~-	<u>.</u>		90
	AAT N		•												GGT G>
_	10	1	D	1	ш	11		G	v	Ľ	S	IX.	L	5	97
		200							20			230			240
	GGT														
5	G	5	G	1	ט	r	1	r	Т	Τ	5	5	L	Q	P>
		25	50		. 2	260			270			28	30		
	GAC	ATC	GCC	ACC	TAC	TAC	TGC	TAT	CAG	TAT	AAC	AAC	GGG		
GAG E		ATC	GCC		TAC	TAC	TGC	TAT	CAG	TAT	AAC	AAC	GGG		
	D	ATC I	GCC A	ACC	TAC Y	TAC Y	TGC C	TAT Y	CAG	TAT Y	AAC	AAC	GGG		
E 290 TTC	D GGC	ATC I CAA	GCC A 300 GGG	ACC T ACC	TAC Y AAG	TAC Y 33 GTG	TGC C 10 GAA	TAT Y ATC	CAG Q AAA	TAT Y 320 CGA	AAC N ACT	AAC N GTG	GGG G 330 GCT	Y	Т>
E 290	D GGC	ATC I CAA	GCC A 300	ACC T ACC	TAC Y AAG	TAC Y 33 GTG	TGC C 10 GAA	TAT Y ATC	CAG Q	TAT Y 320 CGA	AAC N	AAC N	GGG G 330 GCT	Y GCA	Т>
E 290 TTC F	D GGC	ATC I CAA	GCC A 300 GGG G	ACC T ACC	TAC Y AAG K	TAC Y 33 GTG	TGC C 10 GAA	TAT Y ATC I	CAG Q AAA	TAT Y 320 CGA R	AAC N ACT T	AAC N GTG	GGG G 330 GCT A	Y GCA	T>
E 290 TTC F 34 TCT	D GGC G 40 GTC	ATC I CAA Q TTC	GCC A 300 GGG G	ACC T ACC T 350 TTC	TAC Y AAG K	TAC Y 31 GTG V CCA	TGC C 10 GAA E 360 TCT	TAT Y ATC I GAT	CAG Q AAA K GAG	TAT Y 320 CGA R 37	AAC N ACT T 70 TTG	AAC N GTG V AAA	GGG G 330 GCT A	Y GCA A 880 GGA	T> CCA P> ACT
E 290 TTC F 34 TCT	D GGC G 40 GTC	ATC I CAA Q	GCC A 300 GGG G	ACC T ACC T	TAC Y AAG K	TAC Y 31 GTG V CCA	TGC C 10 GAA E 360 TCT	TAT Y ATC I GAT	CAG Q AAA K GAG	TAT Y 320 CGA R 37	AAC N ACT T 70 TTG	AAC N GTG V AAA	GGG G 330 GCT A	Y GCA A	T> CCA P> ACT
E 290 TTC F 34 TCT	D GGC G 40 GTC	ATC I CAA Q TTC	GCC A 300 GGG G	ACC T ACC T 350 TTC	TAC Y AAG K CCG P	TAC Y 31 GTG V CCA	TGC C 10 GAA E 360 TCT S	TAT Y ATC I GAT D	CAG Q AAA K	TAT Y 320 CGA R CAG Q	AAC N ACT T 70 TTG L	AAC N GTG V AAA	GGG G 330 GCT A TCT S	Y GCA A 880 GGA G	T> CCA P> ACT T>
E 290 TTC F 34 TCT S	D GGC G 40 GTC V	ATC I CAA Q TTC F	GCC A 300 GGG G ATC I	ACC T ACC T 350 TTC F	TAC Y AAG K CCG P	TAC Y 31 GTG V CCA P	TGC C 10 GAA E 360 TCT S	TAT Y ATC I GAT D	CAG Q AAA K GAG E	TAT Y 320 CGA R CAG Q	AAC N ACT T 70 TTG L 420	AAC N GTG V AAA K	GGG G 330 GCT A TCT S	Y GCA A 380 GGA G	T> CCA P> ACT T>
E 290 TTC F 34 TCT S	GGC G 40 GTC V 390	ATC I CAA Q TTC F	GCC A 300 GGG G ATC I	ACC T ACC T 350 TTC F	TAC Y AAG K CCG P OO CTG	TAC Y 31 GTG V CCA P	TGC C 10 GAA E 360 TCT S	TAT Y ATC I GAT D 110 AAC	CAG Q AAA K GAG E	TAT Y 320 CGA R CAG Q	AAC N ACT T 70 TTG L 420 CCC	AAC N GTG V AAA K	GGG G 330 GCT A TCT S	GCA A 380 GGA G	T> CCA P> ACT T> 30 AAA
E 290 TTC F 34 TCT S	GGC GGTC V 390 TCT S	ATC I CAA Q TTC F	GCC A 300 GGG G ATC I	ACC T ACC T 350 TTC F	TAC Y AAG K CCG P OO CTG	TAC Y 31 GTG V CCA P	TGC C 10 GAA E 360 TCT S	TAT Y ATC I GAT D 110 AAC N	CAG Q AAA K GAG E	TAT Y 320 CGA R CAG Q TAT Y	AAC N ACT T 70 TTG L 420 CCC P	AAC N GTG V AAA K	GGG G 330 GCT A TCT S	GCA A 380 GGA G	T> CCA P> ACT T> 30 AAA
E 290 TTC F 34 TCT S GCC A	GGC GGTC V 390 TCT S	ATC I CAA Q TTC F GTT V	GCC A 300 GGG G ATC I GTG V	ACC T ACC T 350 TTC F 40 TGC	TAC Y AAG K CCG P OO CTG L	TAC Y 31 GTG V CCA P CTG L	TGC C 10 GAA E 360 TCT S AAT N	TAT Y ATC I GAT D 110 AAC N	CAG Q AAA K GAG E TTC F	TAT Y 320 CGA R CAG Q TAT Y	AAC N ACT T 70 TTG L 420 CCC P	AAC N GTG V AAA K AGA R	GGG G 330 GCT A TCT S	GCA A 380 GGA G GCC A	T> CCA P> ACT T> 30 AAA K> 480

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490 500 510 520 AGT GTC ACA GAG CAG GAC AGC AAG GAC AGC ACC TAC AGC CTC AGC AGC V Т Ε S K S Т Y S L Q D D S S> 530 540 550 560 570 ACC CTG ACG CTG AGC AAA GCA GAC TAC GAG AAA CAC AAA GTC TAC GCC Т L Т L S K Α D Y E K Η K V Y A> 600 580 590 610 620 TGC GAA GTC ACC CAT CAG GGC CTG AGC TCG CCC GTC ACA AAG AGC TTC Ε V Τ Η Q G L S S P V Т K F>

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630 640

AAC AGG GGA GAG TGT TAG

N R G E C *